

AD-A229 817

DOCUMENTLESS INPUT

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. Agency Use Only (Leave blank).	2. Report Date. 1990	3. Report Type and Dates Covered. Abstract
4. Title and Subtitle. Computer simulations of effects of small-scale fluctuations on bottom reverberation		5. Funding Numbers. Program Element No. 62435N Project No. Task No. Accession No. DN259007
6. Author(s). James K. Fulford, Richard R. Slater, and James Showalter		8. Performing Organization Report Number. AB 90:223:096
7. Performing Organization Name(s) and Address(es). Naval Oceanographic and Atmospheric Research Laboratory Stennis Space Center, MS 39529-5004		10. Sponsoring/Monitoring Agency Report Number. AB 90:223:096
9. Sponsoring/Monitoring Agency Name(s) and Address(es). Naval Oceanographic and Atmospheric Research Laboratory Stennis Space Center, MS 39529-5004		11. Supplementary Notes. ASA
12a. Distribution/Availability Statement. Approved for public release; distribution is unlimited.		12b. Distribution Code.
13. Abstract (Maximum 200 words). The effects of small-scale fluctuations in the oceanic thermodynamic field on bottom reverberation are simulated for monostatic source/receiver geometries. Fluctuations in the near-source environment may lead to large changes in the vertical arrival structure at the water-sediment interface. The changes in vertical arrival structure lead to changes in observed reverberation time series. Using models based on observations of oceanic fine temperature structure, a series of upper ocean sound-speed profiles is derived, the resulting sound-speed fields are then used to derive the reverberation statistics.		14. Subject Terms. (U) Acoustic; (U) ASW; (U) Reverberation; (U) Active; (U) Detection; (U) Sensors
15. Number of Pages.		16. Price Code.
17. Security Classification of Report. Unclassified	18. Security Classification of This Page. Unclassified	19. Security Classification of Abstract. Unclassified
		20. Limitation of Abstract. SAR

DTIC
ELECTE
DEC 12 1990
S B D
Co



Distribution/ Availability Codes	
1st	Special
A-1	21